

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

DONNA CURLING, ET AL.,

Plaintiffs,

CIVIL ACTION FILE

NO. 1:17-CV-2989-AT

vs.

BRAD RAFFENSPERGER, ET AL.,

Defendants.

VIDEO-RECORDED 30(b)(6) DEPOSITION
TAKEN VIA VIDEOCONFERENCE OF
GEORGIA SECRETARY OF STATES' OFFICE
BY: SANFORD MERRITT BEAVER

AND

SANFORD MERRITT BEAVER
IN HIS PERSONAL CAPACITY
(Taken by Plaintiffs)

Atlanta, Georgia

Wednesday, February 2, 2022

9:08 a.m.

Reported stenographically by
V. Dario Stanziola, CCR (GA)(NJ), RPR, CRR

1 INDEX OF EXAMINATIONS

2

3

4 By Mr. Cross PAGE 7

5

6 INDEX OF EXHIBITS

7 NUMBER EXHIBIT MARKED

8 Exhibit 1: Curling Plaintiffs' Second 10
 9 Amended Notice of Deposition of
 10 Office of the Secretary of State

11 Exhibit 2: Declaration of Merritt 23
 12 Beaver

13 Exhibit 3: Declaration of S. Merritt 68
 14 Beaver

15 Exhibit 4: LinkedIn Printout of 94
 16 Merritt Beaver's profile page

17 Exhibit 5: Atlanta 112
 18 Journal-Constitution article entitled
 19 Case files discredit Kemp's
 20 accusation that democrats tried to
 21 hack Georgia election

22 Exhibit 6: E-mail string with the top 115
 23 from Kevin Robertson dated 7/1/2020

24 Exhibit 7: E-mail string with the top 129
 25 from Kay Stimson dated 12/2/2020

Exhibit 8: ImageCast X ballot marking 135
 device document

Exhibit 9: Document entitled 141
 Information Technology Security
 Program Charter

Exhibit 10: Document entitled 146
 Fortalice Solutions Web Vulnerability
 Remediation Checks Secretary of State
 Georgia Draft - July 14, 2020

1	Exhibit 11: E-mail string with the	152
2	top from Dave Hamilton dated	
3	7/10/2020	
4	Exhibit 12: E-mail string with the	156
5	top from Chris Furtick dated	
6	11/2/2020	
7	Exhibit 13: E-mail string with the	159
8	top from Kevin Rayburn dated 4/5/2019	
9		
10	Exhibit 14: E-mail string with the	162
11	top from Josh Hood dated 4/3/2019	
12	Exhibit 15: E-mail string with the	167
13	top from Dave Hamilton dated	
14	8/13/2020	
15	Exhibit 16: E-mail string with the	170
16	top from Chris Harvey dated	
17	12/30/2020	
18	Exhibit 17: E-mail string with the	176
19	top from Dave Hamilton dated	
20	12/21/2020	
21	Exhibit 18: 2020 Security of the	184
22	voter registration system artifacts	
23	and attestation pursuant to Rule	
24	590-8-3-.01 December 18, 2020	
25		
1	Exhibit 19: E-mail from Dave Hamilton	188
2	dated 8/21/2020	
3	Exhibit 20: E-mail string with the	189
4	top from Angelos Keromytis dated	
5	12/31/2020	
6	Exhibit 21: E-mail string with the	201
7	top from Terry Jones dated 9/17/2020	
8		
9	Exhibit 22: Document entitled	203
10	Fortalice Rules Of Engagement For	
11	Georgia Secretary of State Memorandum	
12		
13	Exhibit 23: E-mail string with the	209
14	top from Dave Hamilton dated	
15	7/29/2020	

1	Exhibit 24: E-mail string with the	214
2	top from Merritt Beaver dated	
3	11/12/2020	
4	Exhibit 25: E-mail from Jason	220
5	Matthews dated 11/3/2020	
6		
7	Exhibit 26: E-mail string with the	224
8	top from Kevin Robertson dated	
9	8/14/2020	
10	Exhibit 27: E-mail string with the	226
11	top from Merritt Beaver dated	
12	3/3/2019	
13		
14	Exhibit 28: E-mail from Nick Salsman	240
15	dated 8/14/2020	
16	Exhibit 29: Document entitled	250
17	Election Office Notes: 10 am	
18	6/15/2020 Meeting	
19		
20		
21		
22		
23		
24		
25		

1 THE VIDEOGRAPHER: We are on the record
2 February 2nd, 2022 at approximately
3 9:08 a.m. Eastern time. This will be
4 volume II to the 30(b)(6) videotaped
5 deposition of the Secretary of State's
6 office. The representative today will be
7 Merritt Beaver. Will counsel please
8 identify themselves and who they represent
9 for the record.

10 MR. CROSS: This is David Cross of
11 Morrison & Foerster for the Curling
12 plaintiffs.

13 MR. DENTON: This is Alexander Denton
14 of Robbins Alloy Belinfante Littlefield for
15 the state defendants.

16 THE VIDEOGRAPHER: Will the court
17 reporter please swear in the witness.

18 (OATH ADMINISTERED.)

19 SANFORD MERRITT BEAVER,
20 having first been duly sworn, was examined and
21 testified as follows:

22 EXAMINATION

23 BY MR. CROSS:

24 Q. Good morning, Mr. Beaver.

25 Are we picking you up okay?

1 Q. Have you been deposed before?

2 Sorry, did you say yes?

3 Yeah, we're not getting that.

4 Yeah, let's go off the record. Your
5 mic's not working.

6 THE VIDEOGRAPHER: The time is 9:11.

7 We're off the record.

8 (A DISCUSSION WAS HELD OFF THE RECORD.)

9 THE VIDEOGRAPHER: The time is 9:13.

10 We're back on the record.

11 BY MR. CROSS:

12 Q. All right. Good morning, Mr. Beaver.
13 We'll try this again.

14 A. Good morning again.

15 Q. And I think you said you have or have
16 not been deposed before?

17 A. I have been deposed before.

18 Q. Okay. All right. And did you meet
19 with counsel before your deposition today?

20 A. Yes.

21 Q. Okay. So do you understand that you're
22 testifying today not just in your personal
23 capacity, but as a representative of the
24 Secretary of State's office on particular topics?

25 A. Yes, I do.

1 Q. And do you understand that means that
2 you're testifying as to the knowledge and
3 information that the Secretary's has on those
4 topics?

5 A. Yes, I do.

6 Q. Okay. So do you have exhibit share up
7 in front of you?

8 A. No. I need to click on something?

9 Q. Oh.

10 MR. CROSS: Let's go off the record
11 again.

12 THE VIDEOGRAPHER: The time is 9:14
13 We're off the record.

14 (A DISCUSSION WAS HELD OFF THE RECORD.)

15 THE VIDEOGRAPHER: The time is 9:17.
16 We're back on the record.

17 (Exhibit 1: Curling Plaintiffs' Second
18 Amended Notice of Deposition of Office of
19 the Secretary of State marked for
20 identification, as of this date.)

21 BY MR. CROSS:

22 Q. Mr. Beaver, do you have Exhibit 1 in
23 front of you?

24 A. I do.

25 Q. Have you seen this document before?

1 there was malware on it, if it at any way managed
2 to get to a new platform, it would be inert,
3 meaning it would have no capabilities in the new
4 environment. Because based on this question, the
5 malware was targeting the old election system,
6 which was Windows-based using access database
7 application.

8 One of the smartest things that the
9 Georgia Secretary of State did was we moved to a
10 system that was completely different, meaning it
11 didn't use the same operating system, did not use
12 the application prior used, which means that
13 anything that was targeting that system would be
14 inert in a new system. But even knowing that, we
15 did make sure that it didn't exist.

16 Q. Okay. Let me -- we'll come back to that
17 answer. But let me come back to the question I
18 asked you. What did you do to prepare to testify
19 on topic 1A?

20 A. I validated with my team that we built
21 out a whole different system not connected at any
22 reason or physically or electronically to the old
23 system. We had no components of the old system,
24 no software, no data, no anything. And the
25 reason was the two systems were so different

1 there was absolutely nothing in the old system
2 that was useful in the new system. So there was
3 no reason to move any of that stuff over there.
4 The old system was old equipment. We didn't need
5 to use any old equipment. We started fresh. And
6 there was nothing on the old system that was
7 needed in the new system. So there was no effort
8 to even try to connect the two. Because it would
9 have made no value, added no value.

10 Q. When you say you validated this with
11 your team what did you do to validate that?

12 A. I met with my team, met with the people
13 that were actually hands on doing it, the work,
14 and validated this is the process we follow.

15 Q. When did you do that?

16 A. Probably at least two or three weeks
17 ago. Well -- and I -- we did it a long time ago
18 when we actually did the move. We met and talked
19 about how we were going to do it. That was back
20 when we actually built out the new system. We
21 did a whole plan as to how we would built --
22 would build it out. There was conversation of is
23 there anything needed from the old system? The
24 answer was no. Do we need any of the data on the
25 system? No. So there was no effort to even try

1 to do anything with the old system. When we
2 finished using the old system we just turned it
3 off.

4 Q. When did that happen?

5 A. We walked away from it.

6 Q. When did that happen?

7 When did you turn off the old system?

8 A. It was -- I'd have to go back and look.
9 I mean, I'd be guessing right now.

10 Q. Do you have any time frame?

11 Was it 2019 when you rolled out the new
12 system or was it 2020?

13 A. We had the old system still on -- I'll
14 say turned on. But we essentially -- we call it
15 put it over in the corner because nobody was
16 using it for about six months just in case there
17 was any questions about something that was done
18 in that system. So it would be somewhere towards
19 the end of '19, probably into early 2000 that we
20 literally unplugged it.

21 Q. And did servers from the old system sit
22 in the same environment as the new system at any
23 point?

24 A. Nope. They were in totally different
25 racks. In fact, the rack was on wheels. When we

1 finished we literally rolled it into a caged area
2 that was locked, pulled all the cables off of it
3 and left it in a secure area. So it -- nobody
4 could accidentally get into it. It would have
5 taken somebody from my group to go reset it up.

6 Q. Okay. Who did you meet with you said
7 about two or three weeks ago to validate this for
8 the system?

9 A. Who did I meet with? My director of
10 technology. My -- a couple of the people that
11 work with him.

12 Q. What's his name?

13 A. Jason Matthews.

14 Q. You said Jason Matthews?

15 A. Yeah, Jason Matthews.

16 Q. And who else did you meet with?
17 What are their names?

18 A. Ronnell Spearman and Kevin Fitts.

19 Q. And they are report to the director of
20 technology?

21 A. Yes.

22 Q. And were they the ones that were
23 responsible for setting up the -- the new system
24 and turning off the old one?

25 A. Ronnell was involved in that group,

1 were brand new. We started clean, fresh. We did
2 not take any chances by introducing anything old.

3 Q. And how do you -- I'm sorry. Go ahead.

4 A. We did not share any of the networking
5 infrastructure. That was all new.

6 Q. And are you saying -- you're also
7 saying that there is no data in the old system
8 that's used with the new system?

9 A. Correct. As I said, it's not
10 compatible.

11 Q. So how does that work for the data in
12 E-Net? Doesn't --

13 A. So -- so for the new system, we had to
14 go back to E-Net and get new data and bring it
15 over to the new system.

16 Q. All right. So how did you do that?
17 I thought you said there's no data from
18 the old system used in the new system?

19 A. The old system -- there are multiple
20 systems. Their E-Net is not the voter -- the
21 votering balloting system. The question that
22 this test talks about is all of the ballot and
23 voting system, not the voter registration system.
24 So when you're speaking of the system, I need you
25 to tell me which system you're talking about. So

1 voter registration system is different than the
2 ballot generation system that feeds the -- the
3 vote-taking system, the voting system. It's two
4 complete environments. Two totally different
5 systems.

6 Q. So you don't --

7 A. The only thing that comes from one to
8 the other is E-Net will export information about
9 candidates over to the balloting system.

10 Q. Do you not consider Georgia's voter
11 registration system part of the state's election
12 system?

13 A. That is an umbrella statement. And
14 when you say the election system, there are
15 numerous systems. They're not tied together.
16 They're all independent systems that are run and
17 managed independently. So you can't apply
18 something about one system to the other system.
19 Operating systems are different, applications are
20 different. The actual users are different.

21 Q. So let me -- let me just make sure I
22 understand. I just want to see -- so does
23 Georgia's election system include the voter
24 registration database or that's something
25 separate?

1 Q. Okay. So answer to my question is yes,
2 the election system includes the voter
3 registration database; are we agreed on that or
4 not?

5 MR. DENTON: Objection.

6 A. The election system is a umbrella which
7 I consider covers many systems where the voter
8 registration system is one of those systems under
9 what we call the elections system.

10 (Exhibit 2: Declaration of Merritt
11 Beaver marked for identification, as of
12 this date.)

13 Q. All right. Mr. Beaver, grab Exhibit 2.
14 We'll come back to Exhibit 1. So you may want to
15 leave that up, if you can.

16 A. Is that -- is there something new in
17 here that I've got to look at?

18 Q. Yeah. And you have to -- sometimes you
19 have to refresh. So if you just refresh your
20 screen, it will pull up the next exhibit. It
21 will be Exhibit 2. Just let me know when you
22 have it.

23 A. All right. That's the one that says
24 0002?

25 Q. Yes, sir.

1 Q. The definition you have for your
2 election system, is the only thing that's
3 different today is that in lieu of the DRE voting
4 machines used for casting ballots, you now have
5 the BMDs? Was there anything --

6 A. So what's under those systems, like the
7 air gap system for building ballots, it's a
8 totally different air gap environment for
9 building ballots, running a different application
10 than this point. But we still have an air gap
11 system for building ballots today. It's just got
12 a different application inside of it.

13 Q. Understood.

14 A. The voter information page is the same,
15 the election night reporting page is the same.
16 Like you said, the DRE is replaced -- replaced
17 with a different system. And all those fall
18 under the election system umbrella.

19 Q. And when you say election system
20 includes numerous other components, what are
21 those other components?

22 A. Those could be networked environments,
23 the securities applications that protect it,
24 things like that.

25 Q. What networked environments are

1 included in the election system today?

2 A. So they -- at the data center where the
3 election system is held there is a whole network
4 environments which components for security and
5 basically segmenting networks, the actual
6 environment itself. Each of our environments
7 have those kind of components in it. They're not
8 necessarily the same. They're different based on
9 the system that it's protecting and the system
10 it's supporting.

11 Q. Anything else, any other components?

12 A. I'm sure there's other more detailed --
13 I mean, depending on how granular we want to get
14 into defining what an environment is holding.
15 But those are the high level things.

16 Q. Okay. What interactions are there, if
17 any, between the Dominion air gaps election
18 system that you talked about earlier that you
19 said is air gapped and the voter registration
20 database or E-Net?

21 A. Well, there is not necessarily
22 interaction between the two. There is a data
23 transfer that happens for each election where
24 somebody from the election center will download a
25 file from E-Net, it will go through numerous

1 on that drive that they didn't know about, we
2 don't trust it. We clean it.

3 Q. Are ballot definition files stored on
4 the state EMS for each election?

5 A. On the state EMS? What do you mean?

6 Q. The state EMS server, are ballot
7 definition files uploaded to that server each
8 year or for each election?

9 MR. DENTON: Objection.

10 A. I don't know the term EMS.

11 Q. Election management system, the
12 Dominion -- the state server that we're talking
13 about.

14 A. Oh, the ballot building system.

15 Q. Yes. Yes. They're -- let's just back
16 up, make sure we're talking about the same thing.
17 What we've been talking about is a server that
18 the state uses that has the Dominion software on
19 it to run elections, right?

20 A. Yes, that's the ballot building system.

21 Q. Okay.

22 A. So when you say EMS, now I understand
23 what you're saying.

24 Q. Right.

25 And have you heard the term election

1 nobody's ever seen or proved existed, but if it
2 did exist, did we put steps in place to make sure
3 that malware couldn't jump on the new
4 Android-based system? The question is why would
5 you ask that question? Since we -- everyone
6 knows malware that's targeted at a Windows-based
7 access program is inert in an access database.
8 Once again, we have to follow the two tenets of
9 programming is the laws of physics and
10 programming logic.

11 Q. Mr. Beaver, let me -- I'm going to have
12 to help you out here, okay? You have to ask the
13 questions I -- you have to answer the questions I
14 ask and only what I'm asking. I'm going to get
15 all of my questions in no matter what. We can do
16 ten hours a day, we can do 12 hours, we can break
17 it up into multiple days, but it's going to
18 happen. And if you continue to give these
19 speeches, then we'll just -- we'll either call
20 the court and let the judge explain to you how
21 this works or we'll just go for many, many days.

22 So I'm going to ask you again. I'm
23 asking you simple yes or no questions, okay? My
24 question is simply this: Do I understand
25 correctly that you're not aware of any

1 investigation done by the state to determine
2 whether flash drives or desktops or laptop
3 computers or iPads, any equipment used at the
4 county level with the old election system that
5 would include the DREs, their GEMS servers, their
6 poll pads, whatever -- we don't have poll pads.
7 The GEMS servers and -- and the DREs and their
8 elections, there's no investigation you're aware
9 of by the state to ensure that every county
10 replaced all of that equipment when transitioning
11 to the Dominion system; is that true, yes or no?

12 MR. DENTON: Objection.

13 Q. You can answer.

14 Is it true, yes or no?

15 A. My understanding is a notice was sent
16 out to the counties that they should not reuse
17 the equipment. I do not know whether or not the
18 counties bought all new equipment or not.

19 Q. Okay. Thank you.

20 Oh, I'm sorry, I should have asked from
21 the start. And I'm not suggesting you are.
22 Since we're on an online forum both sides ask
23 these questions.

24 Do you have anything open other than
25 the Zoom and the exhibit share on your computer,

1 Basically the industry cut their teeth on
2 security with HIPAA, specifically targeted at
3 medical records. So I have a number of years,
4 over ten years, experience in programming in that
5 environment.

6 Q. So my question was have you consulted
7 any election security experts on the
8 understanding of your software about malware?

9 MR. DENTON: Objection.

10 A. Now, I -- I don't know election
11 security, that specific title. Anybody of that
12 -- with that title.

13 Q. So, for example, Fortalice is a company
14 that you guys rely on for -- to help with
15 securing the election system; is that fair?

16 A. Yes.

17 Q. Did you discuss with Fortalice the view
18 that malware potentially could be embedded in the
19 old GEMS system, that it would be inert in the
20 Dominion system?

21 A. No.

22 Q. Did you discuss that with the state's
23 expert, Dr. Juan Gilbert?

24 A. Ron Gilbert? I don't know Ron Gilbert.

25 Q. Juan Gilbert, J-U-A-N.

1 A. I don't know Juan Gilbert.

2 Q. Okay. All right. Come back to
3 Exhibit 1, if you would, please, and back to
4 topic 1A.

5 A. Do you do that by going back and
6 reopening it or is there a --

7 Q. Yeah. Yeah, I think -- if you closed
8 it, you'll have to go back and reopen it.

9 A. Okay.

10 Q. And just let me know you've got that
11 up.

12 A. 1A. I'm there.

13 Q. Okay. So just so we're clear, it's my
14 understanding that, to your knowledge,
15 representing the state on this topic, there is no
16 evidence of any malware infecting the components
17 of Georgia's current election system; is that
18 right?

19 A. Correct.

20 Q. And what investigation was undertaken
21 to get to that conclusion?

22 A. Of the current system or the old system
23 are you asking?

24 Q. The current system.

25 A. So when we built out the system, we

1 built it out, as I said, as a clean system. We
2 did not use anything that was tied to the
3 Internet where malware can come into it, get in,
4 infect it. We have only entered the information
5 that has been scanned for malware into that
6 environment.

7 Q. So no one, to your knowledge, has
8 actually gone in and done any kind of forensic
9 analysis of any of the BMDs or the Dominion
10 servers at the state or county level to see if
11 they are infected with malware; is that right?

12 A. I'm not aware of that.

13 Q. Do you know why that has not been done
14 even on a sampling basis, for example?

15 A. Not aware that there's any sign that
16 there is any malware on it. That's usually the
17 first trigger to look for malware. That would be
18 it.

19 Q. Well, you understand malware can
20 successfully operate in the background without
21 giving an indication that it's there, right?

22 MR. DENTON: Objection.

23 A. Yes, I do. But then I follow back to
24 the tenet we talked earlier is that malware has
25 to somehow physically get onto that environment

1 and have programming logic that is compatible
2 with the environment that it's in.

3 Q. Right.

4 And I understand that, Mr. Beaver.

5 A. Okay.

6 Q. But -- okay. I get it. Thank you.

7 All right. Take a look at topic 1 B,
8 please. Just let me know when you're there.

9 A. Yes. Yes, I'm there.

10 Q. This is any efforts made to air gap a
11 components of Georgia's current election system
12 and the success or failure of any such efforts.

13 A. The answer -- the answer is yes.

14 Q. Right.

15 And so what are those efforts?

16 A. So Secretary of State's IT group,
17 department built an air gapped environment based
18 on NIST standards using NIST protocols to hold
19 the Dominion ballot building environment. And
20 continues to maintain that air gapped environment
21 per the NIST protocols.

22 Q. And that was built sometime in 20- --

23 A. '19.

24 Q. Oh, 2019?

25 A. I think it was -- yes.

1 Q. All right. And this was what you were
2 talking about earlier that it's all new
3 equipment, even new wires in the wall?

4 A. Yes.

5 Q. Okay.

6 A. It does not share anything with any
7 other network environment. It does not
8 cohabitate in any racks or environment.

9 Q. Right.

10 But it does share data with the voter
11 registration system, though, right?

12 A. Yes. And that data is transferred
13 using the NIST protocol.

14 Q. Okay. Who at the Secretary's office is
15 actually responsible for transferring that data?

16 A. That would be Michael Barnes's group.

17 Q. Okay. Who is responsible for uploading
18 any data or files to the state EMS server for any
19 given election?

20 Is there anyone on your team that does
21 that or is that also Mr. Barnes's group?

22 A. That's Mr. Barnes.

23 Q. Okay. All right. Take a look at topic
24 1 C, please.

25 A. Okay.

1 Q. And here it is any connections of any
2 components of Georgia's current election system
3 to the Internet, telephone lines, cable lines,
4 satellites or other third-party system or
5 network.

6 Do you see that?

7 A. Yes.

8 Q. And do you -- what connections in that
9 topic are you aware of today?

10 A. So when -- when we say the election
11 system, remember that's numerous environments.
12 So are we talking about the Dominion air gapped
13 environment or are we talking about the voter
14 registration system or one of the other systems?

15 Q. So I -- I would use the definition that
16 was in your -- well, strike that. Because I want
17 to be fair.

18 We have a particular system -- we have
19 a particular definition here, right? So if you
20 come to the first page of the topics.

21 A. Is that going up or down? Am I
22 scrolling --

23 Q. Yeah, going up. Go up back to the top.
24 There's topic 1. Do you see that? And here you
25 do you see at the bottom the definition of

1 component?

2 A. Oh, hold on.

3 Q. It's for the --

4 A. Component list limited to the following
5 equipment for election...

6 So this all looks like it's speaking to
7 the current Dominion environment, meaning the
8 ballot building device --

9 Q. Yes.

10 A. -- environment.

11 Q. Yes, that's right.

12 A. It doesn't speak to any of the voter
13 registration system, the my voter page, the
14 online registration page. It's just the Dominion
15 environment.

16 Q. Correct. Yeah.

17 A. Okay.

18 Q. And so let's --

19 A. So now --

20 Q. Yeah, let's start with that. So take a
21 look at -- with that definition in mind, are you
22 aware of any connections to the Internet,
23 telephone lines, cable lines, satellites or other
24 third-party system or network for any of the
25 components identified in footnote two for the

1 scanners used to scan ballots, servings --
2 servers containing election management system --

3 A. So you're talking about the actual
4 equipment that's in the field?

5 Q. Correct. That's part of it. Yeah.

6 And so you don't -- so you don't know
7 as you sit here whether any of the 159 counties
8 in Georgia has ever connected any of that
9 equipment to the Internet or to a third-party
10 system, right?

11 A. No. I mean, there's some of the stuff
12 that can't be connected, like the BMDs don't have
13 a network connection to go into that. Now, a
14 laptop, I'm not sure what a laptop -- what they
15 would use a laptop for, a desktop computer, not
16 sure how that would be involved in this whole
17 environment. So I can't speak to those things.
18 Smart phones, same thing, like I -- it's -- it's
19 listed in this list, but it isn't necessarily
20 used in the Dominion environment.

21 So this is a very large list of things,
22 but not all of them have anything to do with the
23 Dominion environment. But I can't speak to, you
24 know, what the counties have done with these
25 kinds of things.

1 Q. All right. The Dominion BMDs used in
2 Georgia have a standard USB port on them, right?

3 A. Yes.

4 Q. In fact, the detached printer that
5 prints the ballot connects to the BMDs with
6 standard USB port, right?

7 A. Yes.

8 Q. And are you aware that the Dominion BMD
9 USB ports are not sealed, meaning that a voter,
10 for example, has access to plug in a USB drive to
11 a BMD used in an election?

12 A. I don't believe that's true. It was a
13 term it's sealed. It's not sealed. I have never
14 seen an environment where it's not sealed. So
15 I'm not sure where that comes from. So I guess I
16 can't answer that that would be true. I am not
17 aware that that -- that system is not sealed.

18 Q. So what is the basis for your
19 understanding that the USB port on each of the
20 30,000 BMDs in Georgia is sealed?

21 A. I've seen them and they're sealed. And
22 that is our protocol is to keep it sealed.

23 Q. Well, I assume you haven't seen all
24 30,000 BMDs, right?

25 A. No, I -- yeah, I haven't seen 30,000

1 BMDs. But, as I said, the protocol is to keep
2 them sealed. And when I say sealed, they're
3 locked -- locked away. They have a sealing
4 device that will show tampering if somebody
5 unseals it. So I have not heard of any counties
6 that have had an issue with BMDs being unsealed.
7 I have not heard that.

8 Q. Okay. And is that something you would
9 expect to know as the state CIO?

10 A. I would have heard it. It isn't the
11 counties report to me. You could probably ask
12 Mr. Michael Barnes if he's heard it. I think
13 he's more in touch with the counties than I am.

14 Q. And why is sealing the BMDs important?

15 A. Many type of layers of security.
16 Security is not just one thing. It is a layer
17 approach. Sealing the BMD is just one of the
18 many security aspects to that -- verifying that
19 we have a very secure system. Sealing is a piece
20 of it.

21 Q. But what is the sealing of a BMD
22 intended to protect against?

23 A. Just what you described, somebody
24 having access to do something to it that's
25 unknown.

1 coming, when they're doing the assessment to
2 basically try to catch us off guard. Then they
3 come back and essentially give us a results of
4 what they they've discovered, things that they
5 found that -- that we should look at.

6 Q. Okay. And do I understand right,
7 beginning in the last couple years they're now
8 directed to convey that orally in a conference
9 meeting as opposed to in writing?

10 A. Yes.

11 Q. Okay. Fortalice in addition to the
12 cybersecurity assessment, the annual assessment,
13 Fortalice has been tasked with doing other sort
14 of narrower, more discrete assessments from time
15 to time for the Secretary's office; is that
16 right?

17 A. Yes, it is.

18 Q. And when it does that, one of the
19 requirements the Secretary's office typically has
20 is to require monthly reporting from Fortalice on
21 that work; is that right?

22 A. It has in the past, yes.

23 Q. But those monthly --

24 A. We haven't done any of that type of
25 activity probably in the last year and a half.

1 Q. Why not?

2 A. We didn't have any events or incidents
3 that required it.

4 Q. The monthly reporting, is that
5 typically in writing or is that also now not in
6 writing?

7 A. Not in writing. And in the -- we're
8 not necessarily having any monthly reporting for
9 a while, probably for almost the last year.

10 Q. So Fortalice did an annual
11 cybersecurity assessment of CES in 2020; is that
12 right?

13 A. Yes.

14 Q. And the findings that came out of that,
15 those were conveyed in -- in a conference meeting
16 with your team and others; is that right?

17 A. Yes.

18 Q. What -- what exactly was the scope of
19 work that Fortalice did for that assessment in
20 2020?

21 A. Okay. I was not in that meeting. So I
22 can't tell you. I don't know.

23 Q. Who would you ask?

24 A. I know Bill Warwick was involved. But
25 he no longer works here. I forget who else?

1 Fortalice has not been able to penetrate the
2 networks. We've had to let them in in order for
3 them to continue their testing.

4 Q. So you anticipate where I was going to
5 go. The 2020 and 2021 assessments included
6 penetration testing, right?

7 A. Yes.

8 Q. And do I understand correctly, it's
9 your understanding that the penetration testing
10 by Fortalice failed in both 2020 and 2021?

11 A. My understanding is that it failed.

12 Q. Okay. All right. What --

13 A. When you say penetration testing, that
14 means them trying to get access into our system.

15 Q. And what systems were they -- strike
16 that.

17 You may not know because I think you
18 said you didn't know the scope. But let me just
19 be sure. What specific systems at the
20 Secretary's office were within the scope of the
21 penetration testing in 2020?

22 A. The only one that they could actually
23 do potentially penetration testing is our data
24 centers where the voter registration system is,
25 the SOS, other applications such as corporations,

1 POB, securities applications are in -- e-mail
2 environment, those. Has not -- they can't do
3 penetrations testing on any of the CES
4 environment, the -- a Dominion environment.

5 Q. Why not?

6 A. It is not tied to any network, whether
7 it be Wi-Fi or hard wire that they could come
8 through. It is completely isolated out.

9 Q. Have you had them test that?

10 A. We had them -- I think -- when we first
11 built it, I believe that was one of the tests.
12 But I'd have to go validate that to see whether
13 or not there was a connection out.

14 Q. Okay. So as you sit here today, you
15 don't recall any specific test Fortalice has done
16 to penetrate the CES network; is that right?

17 MR. DENTON: Objection.

18 A. I don't know.

19 Q. Okay. All right. Come to paragraph 13
20 of your 2019 declaration, if you would.
21 Exhibit 2.

22 MR. DENTON: Sorry, David, is this
23 Exhibit 2 or 3?

24 MR. CROSS: Oh, good question. Maybe
25 it's Exhibit 3. Let's see.

1 that also the same process today with Dominion
2 and the poll pad software that's used?

3 A. That would be a Michael Barnes
4 conversation.

5 Q. Okay. Is it your belief that logic and
6 accuracy testing done on BMDs provide
7 cybersecurity assessments for those machines?

8 A. It is one of the layers we use.
9 Remember I said that security is not one thing,
10 it's one of many layers. It's an important to
11 valid validate that the software that's on there
12 is what you expect to be on there and there's
13 nothing else on that system. So yes, it is one
14 of the layers.

15 Q. And is it your understanding that logic
16 and accuracy testing actually validates the
17 software that's on a given BMD?

18 A. It validates that it matches a hash
19 test. Means if you hash the file, you will get a
20 respondent hash. If you hash a file that has
21 been modified at all or is of a different
22 structure, meaning something hiding there with
23 the same name, it will come back a different
24 hash. And it will fail.

25 Q. But do you understand that it's common

1 with malware to design malware so that it defeats
2 the hash test, meaning it will spit back the same
3 hash that you're looking for when you're doing
4 something like logic and accuracy testing?

5 MR. DENTON: Objection.

6 A. I don't have any -- any document that
7 says that.

8 Q. That's not something you've heard
9 before?

10 A. Nope.

11 Q. Okay. All right. Take a look at
12 paragraph 18, please.

13 Do you have that in front of you?

14 A. Yes, I do.

15 Q. And here you wrote, State defendants
16 also conducted parallel testing on election day
17 for a copy of an actual county GEMS database is
18 used with a voting machine set up in the
19 Secretary of State's office and set an election
20 mode for a specific real county precinct.

21 Do you see that?

22 A. Yes.

23 Q. Is that same sort of parallel testing
24 done today with the Dominion system?

25 A. I'm not aware of that.

1 A. Yes.

2 Q. Do you have an understanding as to
3 whether the Dominion BMD system is software
4 independent?

5 A. I'm not sure I understand your
6 question. It's software independent.

7 Q. Sorry. The question is just that do
8 you have -- do you have any understanding as to
9 whether the Dominion BMD system used in Georgia,
10 whether it's considered software independent?

11 MR. DENTON: Objection.

12 A. I've never heard that term.

13 Q. Okay. Where she goes on to say that
14 the system must be auditable and its tabulation
15 record cannot be based solely on its software, do
16 you have an understanding of whether the
17 tabulation record in Georgia with the DM -- the
18 BMD system is based on the software?

19 MR. DENTON: Objection.

20 A. I can tell you there's no voting on a
21 BMD system. All you're doing is marking a
22 ballot. So if somebody says you are maliciously
23 changing votes, there are no votes counted on a
24 BMD. So I am -- you know, I can only speculate
25 here. But the whole conversation is sideways.

1 Because we don't count ballots on BMDs. It's
2 counted over on the scanner, which runs different
3 software completely than what's on the BMD.

4 Q. All right. The software on the scanner
5 tabulates a QR code on the ballot in the current
6 system, right?

7 A. I believe that's correct.

8 Q. And are you aware of any research or
9 testing of the Dominion BMD system by any
10 election security experts who found that the QR
11 code can be changed so that it doesn't actually
12 match what the voter intended when they voted on
13 the BMD?

14 A. No, I'm not.

15 Q. Is that -- assuming that were a
16 vulnerability with this system, that that could
17 -- that that were doable, is that -- or that was
18 a finding that was reached, is that something you
19 would expect to know?

20 A. I don't know. No, apparently not. If
21 it was a finding and I don't know.

22 Q. Okay. Would you expect measures to be
23 taken to mitigate any vulnerability like that?

24 MR. DENTON: Objection.

25 A. I'd -- I'd have to know more about it.

1 that would be the -- the problem we had with the
2 MVP page where you could increment the number and
3 see other peoples' documents that they had
4 pulled, you know, up until a point that the
5 server clears cache.

6 Q. And was this -- sorry. Was this
7 remediated?

8 A. As far as I know, it was remediated
9 fairly quickly because we explained to them how
10 to fix it.

11 Q. And what's the basis for your
12 understanding that it was remediated?

13 A. It seems to me I had a conversation
14 with Dave afterwards that he had worked with them
15 to -- to understand -- you know, explain to them
16 what it was to fix. I think they actually pulled
17 the page down until they could fix it.

18 (Exhibit 16: E-mail string with the top
19 from Chris Harvey dated 12/30/2020 marked
20 for identification, as of this date.)

21 Q. Okay. All right. Grab Exhibit 16,
22 please.

23 A. Chris Harvey, voter registration
24 certificate.

25 Q. Yes.

1 So this is an e-mail you can see that
2 Chris Harvey received on December 30th, 2020.

3 Do you see that from Ryan Germany?

4 A. Yes, yes.

5 Q. And if you come down the beginning of
6 the thread it begins with an e-mail that Dave
7 Hamilton sent on December 24, 2020.

8 Do you see that?

9 A. Yes.

10 Q. And he sends that to you and Mr.
11 Germany at the Secretary's office, right?

12 A. Okay.

13 Q. And the subject line is 2020 rule
14 590-8-3 attestation and assessment.

15 Do you see that?

16 A. Yes.

17 Q. And this concerns the assessment
18 attestation or certification that the Secretary's
19 office has to put out each year, it's a security
20 risk assessment that the Secretary has to attest
21 to each year, right?

22 A. Yes.

23 Q. And so Mr. Hamilton looks like was
24 handling the attestation in December of 2020.

25 Do you recall that?

1 A. I know it gets done every year, so --
2 and it needs to be the done the first -- by the
3 end of the year or at least before -- you know,
4 early on. I think the target is by the end of
5 December.

6 Q. Okay. So do you see here --

7 A. I vaguely remember this.

8 Q. Okay. You see Mr. Hamilton writes
9 Civix just got me the last two artifacts for
10 this; do you see that?

11 A. Yes.

12 Q. What is Civix?

13 A. Civix is PCC. PCC changed their name
14 to Civix.

15 Q. Okay. And he goes on, They apparently
16 have never completed a security risk assessment.

17 Do you see that?

18 A. Yes.

19 Q. And do you have any reason to believe
20 that Mr. Hamilton was wrong about whether Civix
21 or PCC had ever completed a security risk
22 assessment?

23 MR. DENTON: Objection.

24 A. I can't speak to that.

25 Q. Okay.

1 MR. DENTON: Objection.

2 A. -- Dave was a -- I'll say a
3 perfectionist. He was very judgmental of other
4 people. And if they didn't do things his way, he
5 wasn't satisfied. There are lots of people in
6 the securities world. Dave was a very hard-core
7 and that he had his vision of how things should
8 be done. Not that his was the only way to do
9 something, but he had his way and he spoke his
10 mind. Here he is speaking his mind. Whether or
11 not James actually met the level of the law, I
12 felt he did.

13 Now, did Dave have a harder view on
14 things and drive the organization better? Yeah,
15 he did. That's why he essentially replaced
16 James. But James did what he was supposed to do.
17 He worked within the legal law of what
18 requirements were. Dave was unhappy with Civix
19 because he -- his view on security was one thing
20 and they had a different. Security is a broad
21 topic. Dave was very opinionated and he
22 basically would voice his opinion all the time.
23 So you're reading it.

24 Q. And the concern that Dave Hamilton
25 expresses in this e-mail thread is that the --

1 the Secretary of State is actually not in
2 compliance with the rule at this time because he
3 can't find the evidence, what he calls artifacts,
4 of that compliance, right?

5 MR. DENTON: Objection.

6 A. Yeah. He doesn't say here what the
7 artifacts are. I know he and I have talked about
8 this on multiple occasions. As I said, he was a
9 perfectionist. The attestation applies only,
10 only to the voting -- voter registration system,
11 the election system. Dave felt it should apply
12 to all things that the Secretary of State
13 managed. But the attestation specifically only
14 applied to election. So Dave was always on a --
15 on a course to say we should have things like
16 artifacts that cover everything, whether it's the
17 corporate registration system, whether it is the
18 security system, professional licensing system.
19 He felt all of them should fall under the same
20 level of security that elections did. But the
21 attestation clearly does not include anything but
22 elections. And that was always a rub to Dave.

23 Does that answer your question?

24 Q. I think so. I was going to grab
25 another exhibit for you.

1 A. Oh, all right I didn't -- one of those
2 pregnant pause moments --

3 Q. Yes. Sorry.

4 (Exhibit 17: E-mail string with the top
5 from Dave Hamilton dated 12/21/2020 marked
6 for identification, as of this date.)

7 Q. All right. Grab Exhibit 17.

8 A. This looks like it's the same topic.

9 Q. Yes, yes, a little bit earlier. So I
10 wanted to -- a little more context.

11 So if you go to the top, you'll see
12 this is an e-mail that Dave Hamilton sent you on
13 December 21, 2020 regarding the rule 590 -- or
14 the 590 rule attestation, right?

15 A. Okay.

16 Q. If you come down in the earliest e-mail
17 of the thread is an e-mail that Mr. Hamilton
18 sends to you December 19, 2020 and he copies
19 itsecurity@sos.ga.gov.

20 Do you see that?

21 A. Yes.

22 Q. What is the IT security e-mail there?
23 Is that some sort of like team or group
24 distribution list?

25 A. It's just an e-mail box that if we

1 A. Yes. But he's saying we can go from 66
2 up to over 80 quickly. I don't know whether he's
3 talking about the context of Civix in like --
4 like we talked earlier, fixing their code so that
5 they can't do sequel injection and things like
6 that so we don't have to use external tools to
7 remediate, that could very well be where he is.
8 Because that was also a big thing is he wanted
9 them to fix their code so it was a true fix, not
10 a remediation using a different solution. That
11 could very well be where he's talking. And if
12 you notice this date timeline is all around that
13 same time frame.

14 Q. Okay. But do you understand that the
15 concern he was expressing was that with respect
16 to what PCC was handling, the state was only in
17 compliance with 66 percent of the requirements
18 under the rule based on --

19 MR. DENTON: Objection.

20 Q. -- research he had done?

21 A. I see that. As I said, Civix code did
22 not meet some of the requirements that we had to
23 have from security inspection. So we had to put
24 things in front of it to reach the level of
25 security we needed. He was a truest. He wanted

1 the code to do it on its own.

2 So we've already talked about this
3 topic of Civix couldn't fix their code to do what
4 it is because it would break it. And they would
5 have to do a major rewrite to do what really
6 needed to do to fix the sequel injection, the
7 cross-side scripting, those kind of things.

8 Q. Okay.

9 A. They didn't like the fact that we had
10 to use other tools like Cloudflare to fix
11 problems to meet our attestation levels. He
12 wanted to see them -- like he said, we could
13 quickly get there if Civix would just fix this.
14 We knew that. But we couldn't -- we -- get them
15 to fix it.

16 Q. All right.

17 A. It was a point of frustration for him.

18 Q. The Secretary's office has announced
19 that they're actually moving away from E-Net,
20 right?

21 A. Yes.

22 Q. And why is that?

23 A. It's an old system, to start with.
24 Civix has changed vendors -- or has been
25 purchased I think at least twice, maybe three

1 times in the last four years, four or five years.

2 Q. When was the decision made to move away
3 from E-Net?

4 A. Last year.

5 Q. Who made that decision?

6 A. Front office.

7 Q. And by front office who do you mean?

8 A. Secretary.

9 Q. Oh, Secretary Raffensperger?

10 A. Yes. Those kind of decisions, it comes
11 down to him to make the call. We present
12 proposals and it's up to him to say yay, nay.

13 Q. What --

14 A. It's a big decision.

15 Q. Sorry.

16 A. Yeah, that was a big, big decision.

17 Q. What were those specific reasons that
18 he decided to move -- to replace E-Net?

19 A. One was the age, one was the ability
20 for us to get, like this, certain fixes put in
21 place that we wanted to see. Some of it was
22 security related, some was just functionality
23 related. The application was built I think like
24 in 2012 when we first purchased it. And the --
25 but the actual application was probably built a

1 year or two before that. So the core code was
2 ten years old. Getting very old. Technology has
3 changed. So it was time to look at another
4 solution. We were in the process of also looking
5 at some of our other systems and we decided to do
6 basically an overall refit of everything.

7 Q. What's the new solution that you're
8 bringing in in place of E-Net?

9 A. I think they've announced -- already
10 announced that it's Salesforce based.

11 Q. And will that be a cloud solution
12 hosted by Salesforce?

13 A. Yes.

14 Q. Okay. What's the process for migrating
15 data from E-Net to Salesforce; do you know?

16 A. It hasn't been done yet. We're in the
17 process of trying to come up with a migration
18 plan.

19 (Exhibit 18: 2020 Security of the voter
20 registration system artifacts and
21 attestation pursuant to Rule 590-8-3-.01
22 December 18, 2020 marked for
23 identification, as of this date.)

24 Q. All right. Grab Exhibit 18, please.

25 A. 2020 security of voter registration

1 whole technology team.

2 Q. All right. Can you come back, if you
3 would, please, to Exhibit 19, which was the cover
4 e-mail for the remediation task list.

5 A. Got it.

6 Q. And so in Mr. Hamilton's e-mail to you
7 he writes, How much do we want to share of this?
8 Normally how we prioritize and what we are
9 working on is not ever meant for public eyes.
10 And then he goes on to say, This level of detail
11 I don't think we should give anyone outside the
12 agency because it can be used to pinpoint where
13 our holes are and give a road map to bad actors.

14 Do you see that?

15 A. Yep.

16 Q. Did you share his concern that if you
17 were going to make public the attachment that it
18 could be used to pinpoint where holes were in the
19 Secretary's network and give a road map to bad
20 actors?

21 A. I think anytime you reveal any security
22 information about an organization, you give a
23 road map to bad actors. That is -- that is like
24 the number one thing that bad actors look for is
25 any public information about how a system's

1 designed, known information about it. That's why
2 bad actors typically scan sites all the time
3 looking for holes. So anytime you give them
4 something, that's not good. You're just
5 basically making it even more difficult on
6 yourself to protect your system.

7 Q. If you can pull up Exhibit 20 again.

8 A. Yes.

9 Q. Are there any specific risks in here
10 that you can identify as an example where it --
11 you would be concerned about making them public
12 because of the road map concern?

13 A. I don't know that I can answer that. I
14 -- any risk -- this is what you hear in the paper
15 all the time that, you know, Adobe has no risk.
16 Well, more than likely nobody knows about it but
17 maybe a researcher someplace. But as soon as you
18 open it up, now people can say oh, let me go look
19 over there. I mean, the Internet is a wide
20 field. As soon as you start to point to well,
21 here is a potential area, it let's people focus
22 on that and you would become more exposed.

23 That doesn't mean that the risk it --
24 probability of somebody actually penetrating it
25 is very high at all. Because somebody still has

1 to find that needle out in that field. But if
2 someone says it's right there, you make it much
3 easier. Not necessarily they can penetrate or
4 breach you, but it gives them a target.

5 So I wouldn't speak of any of these
6 over another because each one of them are -- are
7 risks that need to be looked at. Now, what's the
8 probability that somebody will find them?

9 Hopefully very low. Probably very low
10 considering we've never had a breach. The --
11 we're running pretty good. But Dave's job was to
12 find all of those pins in the field. And he was
13 -- he was relentless. That's why he was good.
14 My stand on security people is if they're not a
15 total pain in your ass, they're not doing their
16 job.

17 Q. Who has Dave Hamilton's
18 responsibilities now as the CISO?

19 A. So it's tied between Kevin Fitts and
20 Fortalice. Dave is hard to replace.

21 Q. How long has Kevin Fitts been with your
22 office?

23 A. About eight years.

24 Q. And he reports to you?

25 A. Yes.

1 Q. And what responsibilities does
2 Fortalice have for filling in part of the CISO
3 role?

4 A. So the key strategic where do we go,
5 what are the core elements that we need to work
6 on, Kevin Fitts does not have that level of
7 experience of a CISO. He is not a CISO. He's a
8 manager, he's certified in security. But he
9 doesn't have the years of experience Dave had.
10 So until we figure out how to replace Dave, Kevin
11 is helping me fill in the position of helping to
12 manage the day-to-day.

13 I mean, so for like risk registers,
14 once it's been identified where the issues are,
15 we need to start working -- working a plan on
16 each of these. And each of these could take
17 months to fix. And some of them that are what
18 are considered high risk maybe probability is
19 someone actually attacking it is really low. But
20 if they were to find it, it would cause a
21 problem.

22 So his task is working with Fortalice
23 to identify all right, let's work on these five
24 things first. Because you can only do so much at
25 a time. It's a working environment. This is not

1 Q. Okay.

2 A. The important thing here is we track
3 what our weaknesses are and we work toward fixing
4 them. Too many organizations that I've seen do
5 turn a blind eye to try to keep track of this.
6 This is what's made our organization strong
7 security-wise is we keep track of it, we hold
8 ourselves accountable.

9 Q. And sorry, Mr. Beaver, if I asked you
10 this earlier, but I can't remember. We talked
11 about, you know, possible forensic examination of
12 voting equipment like BMDs and printers and
13 scanners. Do you know why that has not been done
14 in Georgia?

15 MR. DENTON: Objection.

16 A. No. I have not been involved in a
17 question about doing that. So I don't have -- I
18 couldn't answer you either way.

19 Q. So that's not something you've proposed
20 as the CIO; is that fair?

21 A. That is fair.

22 Q. Okay. And are you aware of any
23 discussion or consideration at the Secretary's
24 office about doing that or you've just not heard
25 anything like that?

1 A. Correct. I have not heard anything.

2 Q. Okay. Who would have the authority to
3 make the decision to do that type of analysis?

4 A. It would be between the election
5 center, the elections department, Gabe Sterling
6 and the Secretary. If an issue bubbled up that
7 pointed to a risk, meaning it's verified that
8 something has happened that shows that something,
9 you know, has happened, yeah, we probably would
10 act on it. If we get an e-mail from somebody
11 saying I'm going to start hacking your system,
12 beware, that's probably not enough information to
13 jump on, oh, let's run a test on all the stuff.

14 Q. Okay.

15 A. And you've seen it.

16 Q. Are you familiar with something called
17 the SolarWinds hack?

18 A. Yes.

19 Q. And do you recall that nine Georgia
20 counties, there was evidence that they may have
21 downloaded malware related to that hack in
22 February of 2021?

23 A. I didn't know the count. I knew that
24 there were some counties that were vulnerable.

25 Q. Were you involved in any investigation

1 servers so I could have multiple servers. And
2 what we did was create virtual desktops for the
3 people to use so, actually, code doesn't transfer
4 over the network to that PC that's on their
5 desktop. They use a browser window into a
6 virtual desktop that sits on the server. It's
7 just the configuration we did.

8 Q. How are the PCs that access the EMS
9 server -- what is the -- what are the mechanics
10 of connecting to that server?

11 A. It's an Ethernet hard-wired cable.

12 Q. And so when people are working on those
13 PCs, are they sitting in a room physically with
14 the server or where are they sitting?

15 A. No. In their desks. That's why we had
16 to run new wires in the wall.

17 Q. Oh, I see. So the people who have
18 access to the EMS server, they work from their
19 offices on a PC that's hard-wired to the server
20 and that server sits in some room somewhere; is
21 that correct?

22 A. A caged room.

23 Q. Okay.

24 A. Elsewhere in the building.

25 Q. Okay.

1 A. So the typical configuration of the
2 office is you have a desk on one side, you turn
3 one way and you're working on your PC for daily
4 e-mail and stuff and it's tied to the Internet.
5 And you turn around and you face the opposite
6 direction and you're working on PC that's on the
7 air gap network.

8 Q. Got it.

9 Okay. And so I may have said this
10 before. How many people have those PCs in their
11 offices? Just approximately.

12 A. Oh, five, maybe eight. It's depending
13 on -- I think at the beginning when we had a big
14 push we had as many as eight. But I think
15 they're down to about five now.

16 Q. Okay. And then if you come to where --
17 see where it says supports SQL Express and Win
18 10, do you see that, just where we were?

19 A. Yes.

20 Q. And then below that it reads, Windows
21 10 running XP guest to access old system.

22 Do you see that?

23 A. Yes.

24 Q. Do you know what that refers to?

25 A. So we were still -- remember we were

1 running in parallel in a different environment,
2 the old GEMS system. Because we hadn't
3 completely switched over. So they were -- as
4 part of the project they had to make sure that
5 they had the machines that could run the old
6 system, they had machines that could run the new
7 system. The old system had to run XP because the
8 GEMS application run -- ran with XP.

9 Q. All right.

10 A. Two totally different environments.

11 Q. And just so I understand, when you say
12 two totally different environments, the Dominion
13 EMS server you said was locked in the cage
14 somewhere. Was the old GEMS system, whatever
15 servers it was still running on, was that locked
16 in a different cage somewhere?

17 A. It was in a different rack. A
18 different rack. You know what a rack is?

19 Q. Yes, yes, yes. So it's all in the same
20 locked cage?

21 A. Locked area.

22 Q. But it's on a different server rack?

23 A. Yes.

24 Q. Got it.

25 And you're saying there were no -- no

REPORTER'S CERTIFICATE

I, V. Dario Stanziola, a Certified Court Reporter in the State of Georgia, duly commissioned and authorized to administer oaths and to take and certify depositions, do hereby certify that on Wednesday, February 2, 2022, Sanford Merritt Beaver, being by me personally duly sworn to tell the truth, thereupon testified as above set forth as found in the preceding pages, this examination being recorded stenographically by me verbatim and then reduced to typewritten form by me, that the foregoing is a true and correct transcript of said proceedings to the best of my ability and understanding; that I am not related to any of the parties to this action; that I am not interested in the outcome of this case; that I am not of counsel nor in the employ of any of the parties to this action.

IN WITNESS WHEREOF, I have hereto set my hand, this the 8th day of February 2022.



V. DARIO STANZIOLA, CCR (GA)(NJ), RPR, CRR
Certification Number: 4531-3928-0743-6288